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P.O. Box 800889 Dallas, TX 75380			YIGDALL, MICHAEL J	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/600,056	HERLE ET AL.
Office Action Summary	Examiner	Art Unit
	Michael J. Yigdall	2192
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statue Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be and will apply and will expire SIX (6) MONTHS froute, cause the application to become ABANDON	DN. timely filed m the mailing date of this communication. IED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 22 This action is FINAL . 2b)☑ Th Since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters, p	
Disposition of Claims		
4)	rawn from consideration.	
Application Papers		
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a specificant may not request that any objection to the Replacement drawing sheet(s) including the correct of the specific to by the latest the specific and the specific transfer of tran	ccepted or b) objected to by the ne drawing(s) be held in abeyance. S ection is required if the drawing(s) is c	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Applica iority documents have been recei eau (PCT Rule 17.2(a)).	ation No ved in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informal 6) Other:	

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DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 21, 2009 has been entered. Claims 1, 2, 5-12, 15-22, 25-27 and 30 are pending.

Response to Arguments

2. Applicant's arguments have been fully considered but they are not persuasive.

Applicant contends that there is nothing in Imamatsu that teaches or suggests that the version management domain 42 "is used or updated during the software download process shown in Figures 7 and 8" and concludes that the version management domain 42 "could not be used in the recovery of an error during the software download process" (remarks, page 16).

However, the examiner notes that Imamatsu clearly teaches the recovery of errors during the software download process (see, for example, column 15, lines 34-56). Imamatsu describes that the battery backup RAM 34 and the download buffer 44 are used in the recovery of such errors. The memory that stores the information necessary for such recovery is reasonably designated as part of the "journal" described in Imamatsu along with the version management domain 42. Likewise, a person of ordinary skill in the art could incorporate such information into the journal of Imamatsu with predictable results. Thus, the teachings of Imamatsu would have suggested to those of ordinary skill in the art a journal "configured to be used also in a

recovery of an error during the download of the software update file from the wireless network" such as recited in the claims.

Furthermore, Imamatsu describes that the software update file is downloaded from the wireless network in units of blocks and that upon an error, the downloading is resumed from the suspended or interrupted block (see, for example, column 15, lines 34-56). Thus, the teachings of Imamatsu would have suggested to those of ordinary skill in the art that the journal "is used to resume the operation of the download of the software update file from the wireless network at the next sequential sector following the last successfully downloaded and saved sector" such as now recited in the claims.

Claim Objections

3. Claims 1, 11, 21 and 26 are objected to because as amended, each claim recites "wherein upon the an error" (emphasis added). The examiner presumes that the claims should instead recite "wherein upon the error" or "wherein upon an error."

Claim Rejections under 35 U.S.C. § 103

- 4. The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 1, 2, 5-12, 15-22, 25-27 and 30 are rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,687,901 to Imamatsu (already of record, "Imamatsu") in view of U.S. Patent No. 6,928,579 to Äijä (already of record, "Äijä").

With respect to claim 1 (currently amended), Imamatsu teaches a wireless communication device (see, for example, mobile terminal device 10 in FIG. 3) capable of downloading a software update file from a wireless network (see, for example, the abstract), said wireless communication device comprising:

a non-volatile memory capable of being re-programmed by sectors (see, for example, flash ROM 33 in FIG. 4A), wherein said non-volatile memory stores: (1) a target file to be updated (see, for example, control-software 43 in FIG. 4A), (2) said downloaded software update file (see, for example, download buffer 44 in FIG. 4A and column 6, lines 62-64), and (3) a journal comprising a plurality of entries, each of said plurality of entries containing status information associated with a re-programmed sector of said non-volatile memory (see, for example, version management domain 42 in FIG. 4A and FIG. 5, and see, for example, column 7, line 50 to column 8, line 32);

a random access memory (see, for example, RAM 34 in FIG. 4A); and

a main processor (see, for example, CPU 22 in FIG. 3) capable of replacing target code in said target file with replacement code from said downloaded software update file (see, for example, column 15, lines 34-56), wherein said main processor creates a first block of replacement code in said random access memory and re-programs a first target sector of said non-volatile memory by storing said first block of replacement code into said first target sector (see, for example, column 12, lines 15-19, which shows creating a block of replacement code in

RAM, and column 12, lines 21-23, which shows re-programming a target sector of the nonvolatile memory with the block of replacement code), and wherein said main processor updates first status information in a first entry in said journal associated with said first target sector (see, for example, column 7, line 50 to column 8, line 32).

Imamatsu does not expressly disclose that said main processor is further capable of storing first target code from said first target sector in a save-area of said non-volatile memory prior to storing said first block of replacement code into said first target sector.

However, in an analogous art, Äijä teaches a crash recovery system comprising a wireless device that communicates with a server to download software updates (see, for example, the abstract), wherein the main processor is capable of storing first target code from a first target sector in a save-area of non-volatile memory (see, for example, step S22 in FIG. 4) prior to storing a first block of replacement code into the first target sector (see, for example, step S26 in FIG. 4), so as to revert back to the previous version in the event of a system crash (see, for example, column 5, lines 51-57).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of Äijä into Imamatsu and store the existing code (i.e., first target code) into a save-area of the non-volatile memory before storing the new code (i.e., replacement code) in the first target sector.

Imamatsu in view of Äijä further teaches or suggests that said first status information comprises a second parameter indicating that said first target code from said first target sector was successfully stored in said save-area of said non-volatile memory (see, for example, Äijä, column 5, lines 25-27, which shows storing such a parameter, and column 5, lines 2-4, which

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shows that the parameter enables the device to determine whether the operation was interrupted before completion, and see, for example, Imamatsu, column 8, lines 24-32, which shows that the status information includes several such parameters).

Imamatsu in view of Äijä further teaches or suggests that the journal further comprises information sufficient for a recovery of an error during the replacing of the target code with the replacement code through two independently erasable sectors and the save-area sector of non-volatile memory (see, for example, Imamatsu, version management domain 42 in FIG. 4A and FIG. 5, and column 7, lines 32-40 and 50-60, which shows that the journal comprises two independently erasable sectors and provides for the recovery of such errors, and see, for example, Äijä, column 2, lines 49-60, and column 5, line 50 to column 6, line 5, which shows that the save-area provides for the recovery of such errors).

Imamatsu in view of Äijä further teaches or suggests that the journal is configured to be used also in a recovery of an error during the download of the software update file from the wireless network (see, for example, Imamatsu, column 15, lines 34-56, which shows the recovery of an error during the download of the software update file from the wireless network, and note that the memory storing the information necessary for such recovery represents part of the journal of Imamatsu and that a person of ordinary skill in the art could incorporate such information into the journal of Imamatsu with predictable results), and wherein upon an error occurring during the download of the software update file, the journal is used to resume the operation of the download of the software update file from the wireless network at the next sequential sector following the last successfully downloaded and saved sector (see, for example, Imamatsu, column 15, lines 34-56, which shows that the software update file is downloaded

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from the wireless network in units of blocks and that upon an error, the downloading is resumed from the suspended or interrupted block).

Thus, the combined teachings of Imamatsu and Äijä would have suggested the claimed subject matter to those of ordinary skill in the art at the time the invention was made.

With respect to claim 2 (original), the rejection of claim 1 is incorporated, and Imamatsu in view of Äijä further teaches or suggests that said first status information comprises a first parameter indicating that said first block of replacement code was successfully stored in said first target sector (see, for example, Imamatsu, column 8, lines 24-32, which shows an update completion flag).

With respect to claim 5 (previously presented), the rejection of claim 2 is incorporated, and Imamatsu in view of Äijä further teaches or suggests that said main processor is further capable of storing said first target code from said save-area back into said first target sector after a power loss in said mobile station (see, for example, Äijä, column 2, lines 49-60, and column 5, line 50 to column 6, line 5).

With respect to claim 6 (original), the rejection of claim 5 is incorporated, and Imamatsu in view of Äijä further teaches or suggests that said first block of replacement code in said random access memory is equivalent in size to a sector of said non-volatile memory (see, for example, Imamatsu, column 6, lines 15-22, and column 8, line 65 to column 9, line 1).

With respect to claim 7 (original), the rejection of claim 6 is incorporated, and Imamatsu in view of Äijä further teaches or suggests that said main processor, after said wireless

communication device is restarted after a power loss, uses status information stored in said journal to identify a last successfully re-programmed sector in said non-volatile memory (see, for example, Imamatsu, column 7, lines 32-40, and column 15, lines 34-56).

With respect to claim 8 (original), the rejection of claim 7 is incorporated, and Imamatsu in view of Äijä further teaches or suggests that said main processor resumes replacing target code in said target file with replacement code from said downloaded software update file by reprogramming a next sequential sector in said non-volatile memory following said last successfully re-programmed sector (see, for example, Imamatsu, column 7, lines 50-60).

With respect to claim 9 (original), the rejection of claim 8 is incorporated, and Imamatsu in view of Äijä further teaches or suggests that said journal is stored in at least a first journal sector and a second journal sector of said non-volatile memory (see, for example, Imamatsu, version management domain 42 in FIG. 4A and FIG. 5).

With respect to claim 10 (original), the rejection of claim 9 is incorporated, and Imamatsu in view of Äijä further teaches or suggests that said main processor, in response to a determination that said first journal sector is full of journal entries, erases said second journal sector and stores a next journal entry in said second journal sector (see, for example, Imamatsu, column 7, lines 50-60).

With respect to claims 11, 12, 15-22, 25-27 and 30, the claims recite limitations that are analogous to those recited in claims 1, 2 and 5-10, and therefore are rejected for the same reasons as noted above (see the rejection of claims 1, 2 and 5-10 above).

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Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael J. Yigdall whose telephone number is (571) 272-3707. The examiner can normally be reached on Monday to Friday from 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on (571) 272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael J. Yigdall/ Primary Examiner, Art Unit 2192